

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax

Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

December 04, 2013

WELL WORK PLÜGGING PERMIT

Plugging

This permit, API Well Number: 47-2103198, issued to CHESAPEAKE APPALACHIA, L.L.C., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalities being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions,

please free to contact me at (304) 926-0499 ext. 1654.

James Martin

Operator's Well No: (FD MCELWEE 1)803761

Farm Name: TAMULITIS, MARY

API Well Number: 47-2103198

Permit Type: Plugging Date Issued: 12/04/2013

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

CONDITIONS

- 1. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 2. Well work activities shall not constitute a hazard to the safety of persons.

WW-4B Rev. 2/01

| 1) Date October 18 | , 2013 |
|--------------------|------------------|
| 2)Operator's | |
| Well No. 803761 | |
| 3) API Well No. | 47 - 021 - 03198 |

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

| APPLICATION FOR A PERM | MIT TO PLUG AND ABANDON |
|---|---|
| 4) Well Type: Oil/ Gas X/ Liquid | d injection / Waste disposal / |
| | derground storage) Deep/ Shallow X |
| | |
| 5) Location: Elevation 732' | Watershed Upper Ohio South |
| District Center O\ | |
| | |
| 6) Well Operator Chesapeake Appalachia, LLC | 7) Designated Agent Eric B. Gillespie |
| Address P.O. Box 1300 | Address P.O. Box 6070 |
| Jane Lew, WV 26378 | Charleston, WV 25301 |
| 7 () | |
| 8) Oil and Gas Inspector to be notified | 9) Plugging Contractor |
| Name Bryan Harris | Name_ R & J Well Service |
| Address PO Box 2657 | Address_ P.O. Box 37 |
| Volga, WV 26238 | Hueysville, KY 41640 |
| | |
| @ 1,654' +/ If plug is not at 1,654', SD and contact the Chesapeake engineer for recalculated TIH strapping 2 3/8" tubing to an estimated TD of 1,375 +/ Pump 34 sks of Class A cement | |
| Flush tubing with 1.5 bbls of 6 %gelled water. 18. TOOH with 2 3/8" tubing to surface. SD & V | |
| SD and contact the Chesapeake engineer for recalculation. TOOH with 2 3/8" tubing to 100'. | VOC for 8 hours. RIH w/ sandline tools & tag plug @ 230' +/ If plug is not at 230', Pump 17 sks of Class A cement (100' cement plug). TOOH w/ tubing. Top off well with required |
| SD and contact the Chesapeake engineer for recalculation. TOOH with 2 3/8" tubing to 100'. | Pump 17 sks of Class A cement (100' cement plug). TOOH w/ tubing. Top off well with required plat monument with ALL required WV dates and WV API number. RDMO all service |
| SD and contact the Chesapeake engineer for recalculation. TOOH with 2 3/8* tubing to 100'. Class A cement as needed. Install a 36 inch casing monument w/ 2* vent. Install a Aluminum equipment providers and reclaim location to WV State requirements. | VOC for 8 hours. RIH w/ sandline tools & tag plug @ 230' +/ If plug is not at 230', Pump 17 sks of Class A cement (100' cement plug). TOOH w/ tubing. Top off well with required |

SCOPE OF OPERATION

- 1. Safety is the highest priority. Control costs and avoid unnecessary expenditures.
- 2. TIH with 2-3/8" tubing to estimated TD of 1,865'
- 3. Pump required cement and gel plugs per WV DEP state requirements
- 4. Plant a well monument with WV State API number

PROCEDURE

- 1. Contact the WV State Inspector 48 hours prior to operations.
- 2. **Safety is the highest priority**. Hold wellsite safety meetings prior to each significant operation. Review critical parameters and objectives as well as emergency action plans.
- 3. MIRU construction equipment to BR&L (remove any tanks, separators, well lines, meter runs, exc.)
- 4. MIRU service rig & needed BOP equipment. NOTE: Blow down well to pit or tank.
- 5. TIH strapping 2 3/8" tubing to an estimated TD of 1,854 +/-. **NOTE: If PBTD is incorrect, SD and contact Engineer.**
- 6. Load hole with 29 bbls of 6% gelled water or break surface with circulation.
- 7. Pump 15 sks of Class A cement (200' cement plug), flush tubing with 8 bbls 6% gelled water
- 8. TOOH with 2 3/8" tubing to surface. SD & WOC for 8 hours.
- 9. RIH w/ sandline tools & tag plug @ 1,654' +/-. If plug is not at 1,654', SD and contact the Chesapeake engineer for recalculation.
- 10. RU Wireline and Shoot 4 1/2" casing at 1,325' +/-. Pull and laydown casing.
- 11. TIH strapping 2 3/8" tubing to an estimated TD of 1,375 +/-.
- 12. Pump 34 sks of Class A cement (200' cement plug), flush tubing with 6 bbls 6% gelled water
- 13. TOOH with 2 3/8" tubing to surface. SD & WOC for 8 hours.
- 14. RIH w/ sandline tools & tag plug @ 1,175'+/-. If plug is not at 1,175', SD and contrective Chesapeake engineer for recalculation.
- 15. TIH strapping 2 3/8" tubing to an estimated TD of 330' +/-.

16. Pump 41 bbl of 6% gelled water or break circulation.

NUV 1 8 2013

WV Department of Protection

- 17. Pump 17 sks of Class A cement (100' cement plug). Flush tubing with 1.5 bbls of 6 %gelled water.
- 18. TOOH with 2 3/8" tubing to surface. SD & WOC for 8 hours.
- 19. RIH w/ sandline tools & tag plug @ 230' +/-. If plug is not at 230', SD and contact the Chesapeake engineer for recalculation.
- 20. TOOH with 2 3/8" tubing to 100'.
- 21. Pump 17 sks of Class A cement (100' cement plug). TOOH w/ tubing.
- 22. Top off well with required Class A cement as needed.
- 23. Install a 36 inch casing monument w/ 2" vent. Install a Aluminum plat monument with ALL required WV dates and WV API number.
- 24. RDMO all service equipment providers and reclaim location to WV State requirements.

RECEIVED
Office of Oil and Gas

NOV 1 8 2013

Department of State Protection

Current Wellbore Schematic

WELL (PN): F D MCELWEE 1 (803761)
FIELD OFFICE:
FIELD:
STATE / COUNTY: WEST VIRGINIA / GILMER
LOCATION: T/D CENTER, Q-NORMANTOWN
ROUTE: CE-JLN-RT 326 - JIM ADAMS
ELEVATION: GL: KB: KB Height:
DEPTHS: TD: 1,865.0

210398 P Chesapeake

API #: 4702103198 Serial #: 3198 SPUD DATE: 4/21/1925 RIG RELEASE: 5/25/1925 FIRST SALES: 8/3/1925

| VERTICAL - Original Hole, 1 | 0/30/2013 1: | 53:27 PM | Conductor | Casino | ı; Set | @ 80.0 | ftKB ; | Origina | l Hole | | | |
|---------------------------------------|--------------|-----------------------------------|-----------------------------|-------------------------|----------------|------------------|---|--------------|-------------------|------------------------------|--|---------------------|
| Vertical schematic (ac | | Zones | Set Tension (kips) | | | lud Weight | | ut Pull Date | | De | epth Cut Pull (ftKB |) |
| | | | Item Des Casing Joints | OD (in) 10 | ID (in) | Drift (in) 1.773 | Wt (lb/ft) | Grade | Top Thread | Top (ftKB) | Btm (ftKB) 80.0 | Len (ft) 80.00 |
| | | | Surface Ca | asing: S | Set @ 2 | 280.0 ftl | KB ; O | riginal l | Hole | | | |
| | | | Set Tension (kips) | J, | | lud Weight | | ut Pull Date | | De | epth Cut Pull (ftKB |) |
| 10 in; 0.00 lb/ft; 80.0 ftKB | | | Item Des Casing Joints | OD (in) 8 1/4 | ID (in) | Drift (in) | Wt (lb/ft) | Grade | Top Thread | Top (ftKB) | Btm (ftKB) 280.0 | Len (ft) 280.00 |
| 8 1/4 in; 0.00 lb/ft; | | | Production | Casin | g; Set | @ 1,72 | 3.0 ftKB | ; Orig | inal Ho | ole | | |
| 280.0 ftKB | | | Set Tension (kips) | | | lud Weight | | ut Pull Date | | | epth Cut Pull (ftKB |) |
| | | | | | | Drift | | | Тор | | | |
| | | | Item Des | OD (in) | ID (in) | (in) | Wt (lb/ft) | Grade | Thread | Top (ftKB) | Btm (ftKB) | Len (ft) |
| 7 | | | Casing Joints | 6 5/8 | | | | | | 0.0 | 1,723.0 | 1,723.00 |
| | | | Production | Casin | a: Set | @ 1.85 | 4.0 ftKB | : Orio | inal Ho | ole | | |
| | | | Set Tension (kips) | | | lud Weight | | ut Pull Date | | | epth Cut Pull (ftKB |) |
| 6 5/8 in; 0.00 lb/ft; 1,723.0 ftKB | 1 | | | | No. 1 Heart | Drift | | | Тор | | | |
| | | | Item Des | OD (in) | ID (in) | (in) | Wt (lb/ft) | Grade | Thread | | Btm (ftKB) | Len (ft) |
| | | | Casing Joints | 4 1/2 | | | | | | 0.0 | 1,854.0 | 1,854.00 |
| | | | 1,840.0-1,8 Top of Cemer | Pump Dat 3/11/196 | Start e | Amoun (sacks | \$50,000 PERSON \$ 1000 PERSON \$100 PERSON \$ | Class | Method: Dens (| | Pumped (bbl) | Yield (ft³/sack) |
| - 1 | | | Perforati | ons | | | | | | | | |
| | | BIG INJUN, Original Hole | Date 4/14/1960 | BIG INJU | Zor IN Orig | | т | op (ftKB) | | Sh De (shc (ftKB) t | ens ots/f | nt Status |
| | | | Stimulati | | | | S | | | | | |
| × | | | BIG INJUN | | | | | | | | | |
| | 88 | | Min Top Dep Ma | x Btm De | Total Clea | n Avg Tr | | Freat Avg | Post ISIP (p | si) Comment | | |
| <u> </u> | 8 | | 1,844.0 Sand S | 1,844.0 Size | 463 | 3.00 Typ | ne l | | Amou | nt I | Conc (I | h/gal) |
| × × | | | 20/40 | JILO . | 100 | Mesh Sar | | | 7 | 20,000.0 | | - 3-7 |
| 4 1/2 in; 0.00 lb/ft; 1,854.0 ftKB | 355555555 | | | | | | | | | 1.01 | CIVED Oil and 1 1 8 20:3 Departmental P | |
| | | 45 | | | | | | | E | 1141. | | |

54-98-37

OHIO FUEL OIL COMPANY

Lease No.4674.....

UF.G. 3761 Serial Well No....1341.....

| REC | ORD of Well No. | 1 on th | e F. | D. 1 | icElwee | | | Farm of | 90 | Acres |
|-------------------|------------------|-----------|-----------|------|-----------|---------|-------------|----------------|-----|---------|
| in Center | | B11 | mor | | County, 1 | W. Va. | Gilmer | County | | Field |
| Located | 19 Rig | Commenced | | | 19 | and C | Completed | • | 1 | 9 |
| Drilling Commen | edApril 21st, | 25 and C | completed | May | 21st, | 19 | 25 Dep | th of Hole was | 185 | 7 feet |
| . Contractor was | Pratt Drillin | g Company | | Addı | ·ess Çb | arlesțo | on, W. Ve | l. | | |
| Drillers names | J. S. Yeater and | W. W. Wil | son | | | | Dr | illing cost | p | er faot |
| Drilled deeper to | feet and com | pleted | | | 19 | _ | Drilling de | eper cost | p | er foot |
| Contractor was | | | | Addı | ress | • | | • • | | • |
| | | | 1, | | • • • • | | | | | |

| | CASING | - | ' т | UBING | PACKER | |
|--------------------|---------------------|-----------------|-----------|-------------------|-------------------------------|---------------------|
| Size | Used in Drilling | Left in Hole | Date Size | Foot Used | Oate Size : Kind Pulled | Foot from Bottom |
| LO ¹¹ | 80 | 80 | 1857 | - 3 ^{tt} | 6 5/8" Steel Shoe | • |
| 浸巾 | 575 | 280 | ` | | 6 5/8" x 3" x 16" Heeter Spec | - 4 0 |
| 5 5/8 ⁿ | 1723 | 1723 | | | Perforation | ა ნ ‡ |
| | | | 1.797 | • • | | |

feet of wood conductor used 25/10 water thru 6 5/8" Orifice 16 19 Production changed to Well shot . qts. .::3 1.77.2 ©33Size of Torpedo Well cleaned out result: " "Started Pumping oil 77:5 Well cleaned out veri Size of rods Kind of rods Well abandoned and plugged

OIL WELL GAS WELL -- "

REFERENCE DATA

Production

SUNDRY REPORTS

Barrels per day

Noted conditions that might effect calculated production

Connections used-

1 - 6 5/8" x 3" Moser Head

2 - 3" H P Gates

2: - 3" Nipples

 $1 - 3^{n} \times \frac{1}{8}^{n}$ Elind Union

1 - 3" Tee

Dated

1 - 2" Bronze Stop

1 = ½" Nipple

1 - Set 6 5/8" Anchor Clamps and Bolts

1 - Set 3"

DRILLERS RECORD Map Sar 98-87

| Formation | Тор | Bottom | Thickness | • | | REMARKS |
|----------------------|----------------|--------|----------------|----------|-----|---------|
| Red Rook & Slate | | 535 | 535 | • | | |
| - Big Dünkard | 535 | 620 | 85 | | | |
| Slate and Shells | 620 | 710 | 90 | | • | • |
| - Gas Sand | ` 710 | 750 | 40 | | • | |
| Slate | 750 | 815 | 65 | | | |
| _ 1st Salt Sand | 815 | 900 | 85 | | | |
| Slate | 900 | 920 | 20 | | | |
| Sand | 920 | 983 | 63 | | | |
| Slate | 983 | 1075 | 92 | | | |
| -2nd Salt Sand . | 1075 | 1130 | 55 ., . | , , | | |
| Slate and Shells | 1130 | 1270 | 140 | • . | | |
| - 3rd Salt Sand | 1270 | 1350 | 80 | | | • |
| , Slate and Red Rock | 1350 | 1520 | 170 | | | |
| - Maxon Sandl | 1520 | 1580 | 60 | Water 16 | 421 | |
| Slate and Idme | 1580 | 1620 | 40 | | | |
| - Little Lime | , 1 620 | 1655 | 35 | | | |
| Pencil Cave | 1655 | 1680 | 25 | | | : |
| - Big Lime | 1680 | 1752 | 72 | | | |
| - Injun Sand | 1752 | 1857 | 105 | | • | |
| Total Depth | | 1857 | | | | |

Gas from 1830-1854

WELL DATA

| Location (Surface) | Lat. 38.7703 Long. 80.952 |
|--------------------|---------------------------|
| TD | 1,865' |

CASING AND TUBULAR DATA

| STRING | SIZE | WEIGHT/GRADE | DEPTH |
|--------------|--------|--------------|--------|
| Surface | 10" | NA | 80' |
| Intermediate | 8 1/4" | NA | 280' |
| Intermediate | 6 5/8" | NA | 1,723' |
| Production | 4 1/2" | 11.6#/J | 1,854' |

PRESSURE AND DIMENSIONAL DATA

| SIZE | WEIGHT | GRADE | BURST | COLLAPSE | DRIFT |
|--------|--------|-------|--------|----------|--------|
| 10" | NA | NA | NA | NA | NA |
| 8 1/4" | NA | NA | NA | NA | NA |
| 6 5/8" | NA | NA | NA | NA | NA |
| 4 1/2" | 11.6# | J | 5,350 | 4,960 | 3.875" |
| 2 3/8" | 4.7# | N-80 | 11,200 | 11,780 | 1.901" |

CAPACITIES

| SIZE | WEIGHT | CAPACITY (GAL/FT.) | CAPACITY (BBL/FT.) |
|--------|--------|--------------------|--------------------|
| 10" | NA | 3.59283 | 0.0855 |
| 8 1/4" | NA | 2.62231 | 0.0624 |
| 6 5/8" | NA | 1.61268 | 0.0384 |
| 4 1/2" | 11.6# | 0.65280 | 0.0155 |
| 2 3/8" | 4.7# | 0.16239 | 0.00387 |

WELLHEAD EQUIPMENT

| COMPONENT | SIZE & RATING |
|--------------|---------------|
| Manufacturer | ? |
| Tubing Spool | |
| Casing Spool | |
| Bradenhead | |

DRIVING DIRECTIONS

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Office of Oil and Gas

If traveling from Jane Lew travel on 1-79 S to exit 51 Frametown. Take exit 51 to WV 4 toward Frametown (0.3 mi) and turn left onto WV 4 N (1.7 mi). Turn left onto CR 9 (Rosedale Rd). Continue on Rosedale Rd for approximately 14.7 miles. Well will be on right of road.

WV Department of Environmental Protection WW-4A Revised 6-07

| 1) Date: November 11 | November 11, 2013 | | | | | | |
|-----------------------------------|-------------------|---|-------|--|--|--|--|
| 2) Operator's Well Numb 803761 | Vell Number | | | | | | |
| 3) API Well No.: 47 - | 021 | - | 03198 | | | | |

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

| 4) Surface Ow | ener(s) to be served: | あ) (a) Coal Operator | |
|---|---|---|--|
| (a) Name | Mary Tamulitis % Martin Tamulitis | Name | |
| Address | 113 Lee Street | A 11 | |
| 11441000 | Belington, WV 26250 | | |
| (b) Name | | (b) Coal Owner(s) with Declar | ration |
| Address | | Nama | |
| ridaress | | Address | |
| | | | |
| (c) Name | | Name | |
| Address | | Address | |
| | | | |
|) Inspector | Bryan Harris | (c) Coal Lessee with Declarat | ion |
| Address | PO Box 157 | N | |
| Hudress | Volga, WV 26238 | A 11 | |
| Telephone | 304-380-8171 | | |
| relephone | | | |
| However, Take notic accompan Protection the Applie | you are not required to take any action at all. the that under Chapter 22-6 of the West Virging documents for a permit to plug and abary with respect to the well at the location described. | nia Code, the undersigned well operator proposes to file adon a well with the Chief of the Office of Oil and Gas, ribed on the attached Application and depicted on the attached in the adort of the Office of Oil and to the point of the Chief. | or has filed this Notice and Application and West Virginia Department of Environmental ttached Form WW-6. Copies of this Notice, |
| | Wall One | rator Chesapeake Appalachia, LLC | |
| | Well Oper | Dee Southall | |
| TO THE NO | OFFICIAL SEAL by: | Regulatory Analyst | > |
| 社会社会 | BRITTANY R WOODY Address | P.O. Box 1300 | |
| | 3302 Old Elkins Road | 1 1 | |
| My | Buckhannon, WV 26201 commission expires November 27, 2022 Telephon | 9 304-517-1416 EXT. 86024 | |
| | dswern before me this 12th | day of Movember | RECEIVED |
| My Commissio | MHany K Way | Notary P | Office of Oil and G |
| Oil and Gas Prix | 0 10 | | NOV 1 8 2013 |

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of the business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyoffier@wv.gov.

WW-9 Rev. 5/08

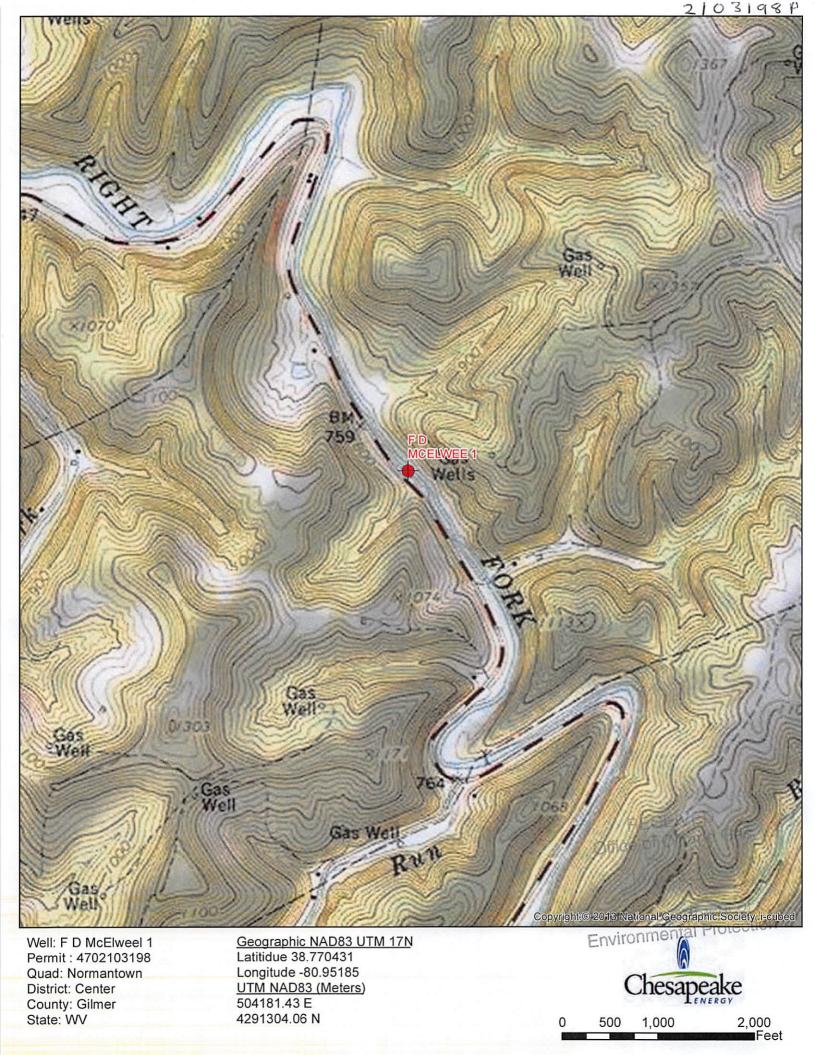
| Page | e of |
|-------------------------|---------|
| API Number 47 - 021 | _ 03198 |
| Operator's Well No. 803 | 3761 |

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

| GENERAL I ERMIT TOR OIL A | AD GASTIT WASTE DISCHARGE |
|--|--|
| Operator Name Chesapeake Appalachia, LLC | OP Code 494477557 |
| Watershed Upper Ohio South | Quadrangle Normantown |
| Elevation County_Gilmer | District Center |
| Description of anticipated Pit Waste: Water from plugging process | |
| Will a synthetic liner be used in the pit? yes 20416. | |
| Reuse (at API Number at next anticipated XX Off Site Dispposal (Supply form WW) | Number 2D0072539/2D0413175/2D0610306/2D0610317) d well, API# will be included on the WR34/∨ permit addendum 9 for disposal location) steel tanks and reused or taken to permitted disposal facility |
| Proposed Work For Which Pit Will Be Used: Drilling Workover Other (Explain | Swabbing Plugging |
| on August 1, 2005, by the Office of Oil and Gas of the West Virg provisions of the permit are enforceable by law. Violations of a law or regulation can lead to enforcement action. I certify under penalty of law that I have personally eapplication form and all attachments thereto and that, based | nditions of the GENERAL WATER POLLUTION PERMIT issued inia Department of Environmental Protection. I understand that the any term or condition of the general permit and/or other applicable examined and am familiar with the information submitted on this on my inquiry of those individuals immediately responsible for e, accurate, and complete. I am aware that there are significantly of fine or imprisonment. |
| Company Official Title Regulatory Analyst | |
| Subscribed and sworn before me this 12th day of 10 | Notory Public V Secretary Public V Publi |
| My commission expires 1127 22 | OFFICIAL SEAL Notary Public, State of West Virginia BRITTANY R WOODY 3302 Old Elkins Road Buckhannon, WV 26201 My commission expires November 27, 2022 |

| | LEGEND |
|--|--|
| Property Boundary | Diversion (1991) 11 11 11 11 11 11 11 11 11 11 11 11 1 |
| Rond = = = = = = = = = = | Spring - |
| Existing Fence — X — X — X — | Wet Spot |
| Planned Fence / / / | Drain Pipe with size in inches |
| Stream | Waterway C+ C+ C+ |
| Open Ditch | Cross Drain 7/1/1/1/1/1/1/1/1/ |
| Rock 655 85 | Artificial Filter Strip XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX |
| North N | Pit: cut walls |
| Buildings | Pit: compacted fill walls |
| Water wells | Area for Land Application of Pit Waste |
| Drill site | (Care and the car |
| Limeas determined by pH test min. 2 Tons/acre or to correct to pH Fertilizer (10-20-20 or equivalent)lbs MulchTons/a | /acre (500 lbs minimum) |
| | |
| Red Top 15 | Red Top 15 |
| Red Top 15 White Clover 15 | |
| | Red Top 15 White Clover 15 |
| Attach: Drawing(s) of road, location,pit and proposed area for land appropriate section of involved 7.5' topographic sheet. Plan Approved by: Drawing(s) of road, location,pit and proposed area for land appropriate sheet. | Red Top 15 White Clover 15 Dilication. |
| Attach: Drawing(s) of road, location,pit and proposed area for land appropriate section of involved 7.5' topographic sheet. Plan Approved by: Drawing(s) of road, location,pit and proposed area for land appropriate sheet. | Red Top 15 White Clover 15 plication. |
| Attach: Drawing(s) of road, location,pit and proposed area for land appropriate section of involved 7.5' topographic sheet. Plan Approved by: Drawing(s) of road, location,pit and proposed area for land appropriate sheet. | Red Top 15 White Clover 15 Dilication. |
| Attach: Drawing(s) of road, location,pit and proposed area for land appropriate section of involved 7.5' topographic sheet. Plan Approved by: Drawing(s) of road, location,pit and proposed area for land appropriate sheet. | Red Top 15 White Clover 15 Dilication. RECEIVED Office of Oil and Gas |



API:47-021-03198



West Virginia Department of Environmental Protection Office of Oil and Gas WELL LOCATION FORM: GPS

WELL NO.: 803761

PERSONNEL / PHONE LIST

Central District Team

Production Engineer Shawn Jackson

Office: (405) 935-6276

Mobile (405) 365-9974

Operations Manager Zack Arnold

Office: (304) 517-1416 ext 86028

Mobile: (304) 203-8059

Completion Superintendent Chad Satterfield

Office: (304) 517-1416 ext 86062

Mobile: (304) 203-8059

Production Superintendent Manny Johnson

Office: (740) 695-1623 ext 87804

Mobile: (304) 641-0085

Land Man Randy Orsburn Office: (304) 517-1416 ext 86020

WV State Inspector

David Cowan

Cell: (304) 389-3509

BRYAN HARMS CELL 304-553-6087

WY STATE JUSPECTOR

GILMEN COUNTY.

RECEIVED Office of Oil and Gas

NOV 1 8 2813

WV Department of Endronmental Protection